

Claims

What is claimed is:

1 1. An information processing system, comprising:
2 a first computing device for:
3 receiving a first information packet originating from a client;
4 in response to the first information packet, identifying a computing device that stores a
5 data structure of a connection with the client;
6 if the identified computing device is the first computing device, performing an operation
7 of an application in response to the first information packet; and
8 if the identified computing device is a second computing device, outputting a second
9 information packet to the second computing device for performing the operation in response to
10 the second information packet, the second information packet including a reference to the data
11 structure, the reference being included within a single header of the second information packet.

1 2. The system of Claim 1 wherein the second information packet includes the first
2 information packet.

1 3. The system of Claim 1 wherein the operation is a first operation, and wherein the
2 reference includes an IP address of the client, a port of a second application executed by the
3 client, an IP address of the second computing device, and a port of the first application executed
4 by the second computing device.

1 4. The system of Claim 3 wherein the port of the first application is a TCP port.

1 5. The system of Claim 3 wherein the port of the first application is a UDP port.

1 6. The system of Claim 1 wherein the first computing device is for receiving the first
2 information packet through a global computer network.

1 7. The system of Claim 6 wherein the first computing device is for:
2 if the identified computing device is a second computing device, outputting the second
3 information packet to the second computing device through a local area network.

1 8. The system of Claim 1 wherein the application is a socket application.

1 9. The system of Claim 1 wherein the first computing device is a network interface
2 card.

1 10. The system of Claim 1 wherein the first information packet is addressed by the
2 client to the first computing device, and wherein the first computing device is for receiving the
3 first information packet in response to the addressing.

1 11. A method performed by a first computing device of an information processing
2 system, the method comprising:
3 receiving a first information packet originating from a client;
4 in response to the first information packet, identifying a computing device that stores a
5 data structure of a connection with the client;
6 if the identified computing device is the first computing device, performing an operation
7 of an application in response to the first information packet; and
8 if the identified computing device is a second computing device, outputting a second
9 information packet to the second computing device for performing the operation in response to
10 the second information packet, the second information packet including a reference to the data
11 structure, the reference being included within a single header of the second information packet.

1 12. The method of Claim 11 wherein the second information packet includes the first
2 information packet.

1 13. The method of Claim 11 wherein the operation is a first operation, and wherein the
2 reference includes an IP address of the client, a port of a second application executed by the
3 client, an IP address of the second computing device, and a port of the first application executed
4 by the second computing device.

1 14. The method of Claim 13 wherein the port of the first application is a TCP port.

1 15. The method of Claim 13 wherein the port of the first application is a UDP port.

1 16. The method of Claim 11 wherein the method comprises:
2 receiving the first information packet through a global computer network.

1 17. The method of Claim 16 wherein the method comprises:
2 if the identified computing device is a second computing device, outputting the second
3 information packet to the second computing device through a local area network.

1 18. The method of Claim 11 wherein the application is a socket application.

1 19. The method of Claim 11 wherein the first computing device is a network interface
2 card.

1 20. The method of Claim 11 wherein the first information packet is addressed by the
2 client to the first computing device, and wherein the method comprises:
3 receiving the first information packet in response to the addressing.